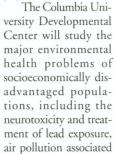
went on to encourage his fellow scientists not to search for the bottom line but to reach for greater scientific understanding. "We should be able to together bring about a better world, a world that we, as humans, can be proud of.'

Two New NIEHS Developmental Centers

Columbia University in New York City and the University of Louisville in Louisville, Kentucky, join Tulane University Medical Center in New Orleans as NIEHS Developmental Centers. The centers program at the NIEHS provides focused research efforts, brings together diverse scientific disciplines to solve environmental problems, and attracts and trains young investigators. Centers also answer questions from the public on environmental problems and help identify emerging problems in the environmental health field. The NIEHS Centers Program

funds 15 Environmental Health Sciences Centers and 5 Marine and Freshwater Biomedical Sciences Centers at universities throughout the United States. Developmental centers have two goals: to develop promising programs that may later be able to compete for an Evironmental Health Sciences Center grant and to encourage research programs that study environmentally related health prob-

lems of economically disadvantaged and/or medically underserved populations.





Janet M. Hughes

with asthma and other pulmonary disease, the effects of environmental factors on reproduction, and the contributions of environ-

mental exposures to cancer. The center director is Joseph Graziano, of the School of Public Health.

The University of Louisville will study biochemical, chemical, and molecular biomarkers to define exposure of human populations. The center will focus on metabolism of acrylonite and vinyl chloride in rat and human liver cells; biomarkers of exposure involving hemoglobin and DNA adducts of acrylonite; and evaluation of the p53 tumorsuppressor gene as a biomarker. The Russell A. Prough

center director is Russell A. Prough of the Department of Biochemistry, School of Medicine.

The Tulane University Medical Center was the first NIEHS Developmental Center to be funded and studies environmental components of disease in minority populations. The center is developing an exposure assessment tool to assess blood-lead levels in children, as well as studying hypertension and lead expo-



Joseph Graziano

sure in minority populations and air pollution associated with childhood lung disease. The center funds community-based research in the Mississippi River delta region to study health effects from environmental chemical exposures. The center director is Janet M. Hughes of the Department of Biostatistics and Epidemiology in the School

of Public Health and Tropical Medicine.

NIEHS Awards Grants on Gene Expression

The NIEHS has awarded six grants in response to its Request for Applications (RFA) "Toxic Substances Effects on Developmental Gene Expression." The goal of the grants is to stimulate research at the interface of developmental biology and developmental toxicology to generate mechanistic data on how environmental agents alter the basic processes of development and thereby contribute to developmental abnormalities in humans. Applicants were encouraged to have elements of both toxicology and molecular biology in their experimental design.

The following grants were awarded:

- · Jonathan L. Tilly, Johns Hopkins University, "Selective Ovotoxicity and Cell Death Gene Expression";
- William F. Greenlee, Purdue Research Foundation, "TCDD-dependent Regulation of Thymus Development";
- · Jean M. Lauder, UNC-Chapel Hill,
 - "Regulation of GABA Expression in Neurotoxins";
 - George M. Stancel, University of Texas Health Science Center-Houston, "Developmental Toxicity of Environmental Estrogens";
 - Charles J. Bieberich, American Red Cross, "Effect of Environmental Toxicants on Hox Gene Expression";

• Rocky S. Tuan, Thomas Jefferson University, "Molecular Basis of Toxicantinduced Vertebral Anomalies."

NTP Accessed 38,000 Times via Gopher

In the nine months following the creation of the NIEHS Gopher Server, the NTP directory has been accessed

more than 38,000 times by various organizations throughout the world. Gopher is designed to allow easy navigation of the Internet and access to information by even novice computer users. Most of these users accessing the NTP directory have used a full-text search to locate a particular chemical in the directory and then accessed the study report abstracts, Annual Report on Carcinogens, NTP Annual Plan, historical control tables, study status, or results-todate for that chemical.

In the past, it took days or weeks (or sometimes months for those overseas) to obtain copies of technical reports and other results of NTP testing. Access via Gopher is almost instantaneous. Furthermore, users can browse through hundreds of abstracts interactively and download the ones they want to their own workstations without having to print a hard copy.

To view the NTP directory on the NIEHS Gopher server, you must have access to the Internet or an Internet client software such as Gopher, or Mosaic. The server is located at the NIEHS, and the address is GOPHER.NIEHS.NIH. GOV. Gopher client and server software is available via anonymous File Transfer Protocol from BOOMBOX.MICRO.UMN. EDU in the /PUB/GOPHER Directory. Mosaic client and server software is available in the /Web/xmosaic-source/ and in binary form in the directory/ Web/xmosaic-binaries/. The Internet email address is CDM@ NIEHS.NIH.GOV.

To obtain NTP information through the mail, contact Central Data Management, MD A0-01, NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA; telephone: (919) 541-3419, FAX: (919) 541-4714.

McLachlan Accepts Tulane Post

After a 21-year NIEHS career during which he progressed from research associate to scientific director, John A. McLachlan has accepted the position of director of the Tulane-Xavier Center for Bioenvironmental Research and professor of pharmacology at Tulane University in New

